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La Gazette de L' État de Poudouchéry
The Gazette of Puducherry

PART - II

சிறப்பு வெளியீடு

EXTRAORDINAIRE

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அதிகாரம் பெற்ற
வெளியீடு

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(1 Magha 1934)

GOVERNMENT OF PUDUCHERRY

LABOUR DEPARTMENT

(G.O. Ms. No. 4/AIL/Lab./J/2013, dated 18th January 2013)

NOTIFICATION

The draft of the following rules further to amend the Puducherry Factories Rules, 1964, which the Lieutenant-Governor, Puducherry, has proposed to make in exercise of the powers conferred upon him under section 112 of the Factories Act, 1948 (Central Act No. 63 of 1948) is hereby published as required under sub-section (1) of section 115 of the said Act (Central Act No. 63 of 1948) for information of all persons likely to be affected thereby and notice is hereby given that the said draft rules will be taken into consideration

on the expiry of forty-five days from the date of publication of this notification in the official gazette.

Any objection or suggestion which may be received from any person by the Government of Puducherry in respect of the said draft rules within the period specified above will be considered by the Government. The objections or suggestions shall be addressed to the Secretary to Government, Labour Department, Puducherry.

DRAFT RULES

1. *Short title and commencement.*— (1) These rules may be called the Puducherry Factories (Amendment) Rules, 2013.

(2) They shall come into force on the date of their publication in the official gazette.

2. *Amendment to rule 114A.*— In the Puducherry Factories Rules, 1964, in rule 114A, for the existing Table-I, under Schedule thereunder, the following Table shall be substituted, namely:—

“ TABLE -I
PERMISSIBLE LEVELS OF CERTAIN CHEMICAL
SUBSTANCES IN WORK ENVIRONMENT

Sl. No.	Substance	Permissible limits of exposure			
		Time-weighted Average concentration (TWA) (8 hrs.)	Short-term exposure limit (STEL)	ppm.	mg/m ³ **
(1)	(2)	(3)	(4)	(5)	(6)
1	Acetaldehyde	100	180	150	270
2	Acetic acid	10	25	15	37
3	Acetone	750	1,780	1,000	2,375
4	Acrolein	0.1	0.25	0.3	0.8
5	Acrylonitrile-Skin (S.C)	2	4.5	—	—
6	Aldrin-Skin	—	0.25	—	—

PART-II] LA GAZETTE DE L'ETAT 25

(1)	(2)	(3)	(4)	(5)	(6)
7	Allyl chloride	1	3	2	6
8	Ammonia	25	18	35	27
9	Aniline-Skin	2	10	—	—
10	Anisidine (o-, p-isomers)-Skin	0.1	0.5	—	—
11	Arsenic and soluble compounds (as As).	—	0.2	—	—
12	Benzene (H.C.)	0.5	1.5	2.5	7.5
13	Beryllium and Compounds (as Be) (S.C.).	—	0.002	—	—
14	Boron trifluoride-C	1	3	—	—
15	Bromine	0.1	0.7	0.3	2
16	Butane	800	1,900	—	—
17	2-Butanone (Methyl-ethyl Ketone-MEK).	200	590	300	885
18	n-Butyl acetate	150	710	200	950
19	n-Butyl alcohol-Skin-C	50	150	—	—
20	Sec/tert, Butyl acetate	200	950	—	—
21	Butyl mercaptan	0.5	1.5	—	—
22	Cadmium-dusts and salts (as Cd).	—	0.05	—	—
23	Calcium oxide	—	2	—	—
24	Carbaryl (Sevin)	—	5	—	—
25	Carbofuran (Furadan)	—	0.1	—	—
26	Carbon disulphide -Skin	10	30	—	—
27	Carbon monoxide	50	55	400	440
28	Carbon tetrachloride-Skin (S.C.)	5	30	—	—
29	Chlordane -Skin	—	0.5	—	2
30	Chlorine	1	3	3	9
31	Chlorobenzene (Monochlorobenzene).	75	350	—	—

26	LA GAZETTE DE L'ETAT			[PART-II]	
(1)	(2)	(3)	(4)	(5)	(6)
32	Chloroform (S.C.)	10	50	—	—
33	bis (Chloromethyl) ether (H.C.).	0.001	0.005	—	—
34	Chromic acid and chromates (as Cr) (Water soluble).	—	0.05	—	—
35	Chrombus salts (as Cr)	—	0.5	—	—
36	Copper fume	—	0.2	—	—
37	Cotton dust, raw	—	0.2*	—	—
38	Cresol, all isomers-Skin	5	22	—	—
39	Cyanide (as CN)-Skin	—	5	—	—
40	Cyanogen	10	20	—	—
41	DDT (Dichlorodiphenyl trichloroethane).	—	1	—	—
42	Demeton-Skin	0.01	0.1	—	—
43	Diazinon-Skin	—	0.1	—	—
44	Dibutyl phthalate	—	5	—	—
45	Dichlorvos (DDVP)-Skin	0.1	1	—	—
46	Dieldrin-Skin	0.25	—	—	—
47	Dinitrobenzene (all isomers)-Skin.	0.15	1	—	—
48	Dinitrotoluene-Skin	—	1.5	—	—
49	Diphenyl (Biphenyl)	0.2	1.5	—	—
50	Endosulfan (Thiodan)-Skin	—	0.1	—	—
51	Endrin-Skin	—	0.1	—	—
52	Ethyl acetate	400	1,400	—	—
53	Ethyl alcohol	1,000	1,900	—	—
54	Ethylamine	10	18	—	—
55	Fluoride (as F)	—	2.5	—	—
56	Fluorine	1	2	2	4
57	Formaldehyde (S.C.)	1.0	1.5	2	3
58	Formic acid	5	9	—	—

(1)	(2)	(3)	(4)	(5)	(6)
59	Gasoline	300	900	500	1,500
60	Hydrazine-Skin (S.C.)	0.1	0.1	—	—
61	Hydrogen chloride-C	5	7	—	—
62	Hydrogen cyanide-Skin-C	10	10	—	—
63	Hydrogen fluoride(as F)-C	3	2.5	—	—
64	Hydrogen peroxide	1	1.5	—	—
65	Hydrogen Sulphide	10	14	15	21
66	Iodine-C	0.1	1	—	—
67	Iron Oxide Fume (Fe ₂ O ₃ (as Fe).	—	5	—	—
68	Isoamyl acetate	100	525	—	—
69	Isoamyl alcohol	100	360	125	450
70	Isobutyl alcohol	50	150	—	—
71	Lead, inorg, dusts and fumes (as Pb).	—	0.15	—	—
72	Lindane-Skin	—	0.5	—	—
73	Malathion-Skin	—	10	—	—
74	Manganese dust and compounds as (Mn)-C.	—	5	—	—
75	Manganese fume (as Mn)	—	1	—	0.03
76	Mercury (as Hg)-Skin–				
	(i) Alkyl compounds	—	0.01	—	0.03
	(ii) All forms except alkyl vapour	—	0.05	—	—
77	Aryl and inorganic compounds	—	0.1	—	—
78	Methyl alcohol (Methanol)-Skin	200	260	250	310
79	Methyl cellosolve (2-methoxyethanol)-Skin.	5	16	—	—
80	Methyl isobutyl ketone	50	205	75	300

(1)	(2)	(3)	(4)	(5)	(6)
81	Methyl isocyanate-Skin	0.02	0.05	—	—
82	Naphthalene	10	50	15	75
83	Nickel carbonyl (as Ni)	0.05	0.35	—	—
84	Nitric acid	2	5	4	10
85	Nitric Oxide	25	30	—	—
86	Nitrobenzene-Skin	1	5	—	—
87	Nitrogen dioxide	3	6	5	10
88	Oil mist mineral	—	5	—	10
89	Ozone	0.1	0.2	0.3	0.6
90	Parathion-Skin	—	0.1	—	—
91	Phenol-Skin	5	19	—	—
92	Phorate (Thimet)-Skin	—	0.05	—	0.2
93	Phosgene (Carbonyl chloride)	0.1	0.4	—	—
94	Phosphine	0.3	0.4	1	1
95	Phosphoric acid (yellow)	—	1	—	3
96	Phosphorus (yellow)	—	0.1	—	—
97	Phosphorous pentachloride	0.1	1	—	—
98	Phosphorus trichloride	0.2	1.5	0.5	3
99	Picric acid-Skin	—	0.1	—	0.3
100	Pyridine	5	15	—	—
101	Silane (Silicon tetrahydride)	5	7	—	—
102	Sodium hydroxide-C	—	2	—	—
103	Styrene, monomer (Phenylethylene).	50	215	100	425
104	Sulphur dioxide	2	5	5	10
105	Sulphur hexafluoride	1,000	6,000	—	—
106	Sulphuric acid	—	1	—	—
107	Tetraethyl lead (as Pb)-Skin	—	0.1	—	—
108	Toluene (Toluol)	100	375	150	560

(1)	(2)	(3)	(4)	(5)	(6)
109	O-Toluidine-Skin (S.C)	2	9	—	—
110	Tributyl phosphate	0.2	2.5	—	—
111	Trichloroethylene	50	270	200	1,080
112	Uranium, natural (as U)	—	0.2	—	0.6
113	Vinyl chloride (H.C.)	5	10	—	—
114	Welding fumes	—	5	—	—
115	Xylene (o-,m-,p-isomers)	100	435	150	655
116	Zinc oxide—				
	(i) Fume	—	5.0	—	10
	(ii) Dust (Total dust)	—	10.00	—	—
117	Zirconium compounds (as Zr)	—	5	—	10

ppm : Parts of vapour or gas per million parts of contaminated air by volume at 25°C and 760 mm of Mercury.

mg/m³ milligram of substance per cubic metre of air.

* : Not more than 4 times a day with at least 60 min. internal between successive exposures

$$3^{**} : \text{ mg/m}^3 = \frac{\text{Molecular weight}}{24.45} \times \text{ ppm}$$

C : denotes ceiling limit.

Skin : denotes potential contribution to the overall exposure by the cutaneous route including mucous membranes and eye.

S.C. : denotes Suspected Human Carcinogen.

H.C. : denotes Confirmed Human Carcinogen.

Substance Permissible time-weighted average concentration
 (TWA) (8 hours.)

Silica, SiO_2

(a) Crystalline

(i) Quartz

$$(1) \text{ In terms of dust count } \frac{10600}{\% \text{ Quartz} + 10} \text{ mppcm}$$

$$(2) \text{ In terms of respirable dust. } \frac{10}{\% \text{ respirable Quartz} + 2} \text{ mg/m}^3$$

$$(3) \text{ In terms of total dust } \frac{30}{\% \text{ Quartz} + 3} \text{ mg/m}^3$$

(ii) Cristobalite : Half the limits given against quartz

(iii) Tridymite : Half the limits given against quartz

(iv) Silica fused : Same limits as for quartz

(v) Tripoli : Same limit as in formula in item (2)
 given against quartz.

(b) Amorphous Silicates : 10 mg/m³, Total dust

[Asbestos (H.C.)

(a) Amosite 0.5 fibre/cc***

(b) Chrysotile..... 1.0 fibre/cc***

(c) Crocidolite..... 0.2 fibre/cc***]

Portland Cement : 10 mg/m³, Total dust containing less than 1% quartz.

Coal Dust : 2 mg/m³, respirable dust fraction containing less than 5% quartz.

mppcm: Million particles per cubic metre of air, based on impinger samples counted by light-field techniques.

***(i) For fibres greater than 5 m in length and less than 5 μm in breadth with length to breadth ratio equal to or greater than 3:1

(ii) As determined by the membrane filter method at 400-450 x magnification (4mm objective) phase contrast illumination.

Respirable dust: Fraction passing a size-selector with the following characteristics:

Aerodynamic Diameter (m) (Unit density sphere)	% Passing Selector
2	90
2.5	75
3.5	50
5.0	25
10	0

(By order of the Lieutenant-Governor)

G. SRINIVAS,
Joint Secretary to Government (Labour).

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